Title: THE LACTOSE OPERON OF LACTOBACILLUS DELBRUEKII AND ITS USE FOR CONTROLLING GENE TRANSCRIPTION AND/OR EXPRESSION IN BACTERIAL CELLS
Inventor: Germond, J. et al.
App. No.: 10/019,817
Docket No.: 112843-039 Replacement Drawing

FIG. 1

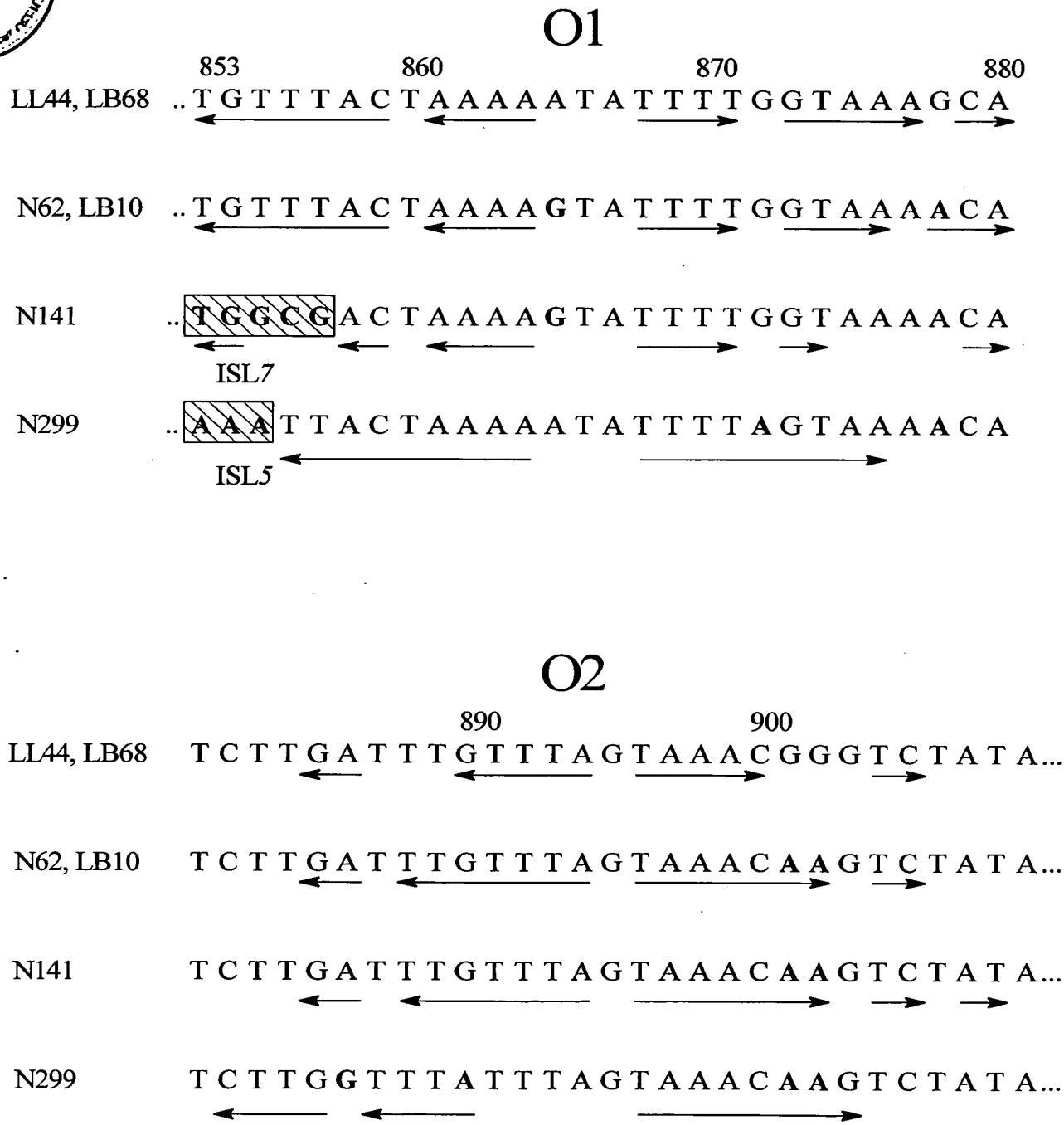

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FIG. 2

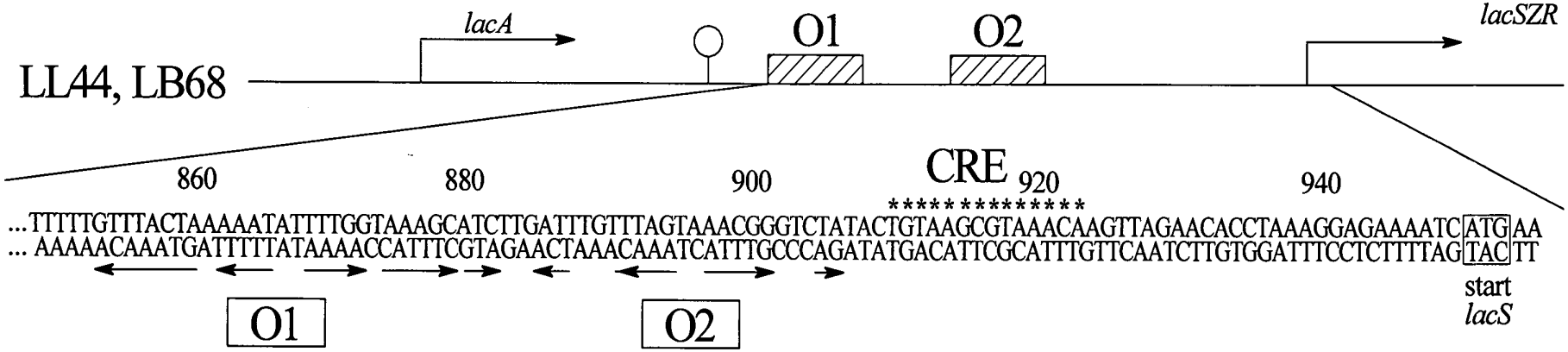

FIG. 3

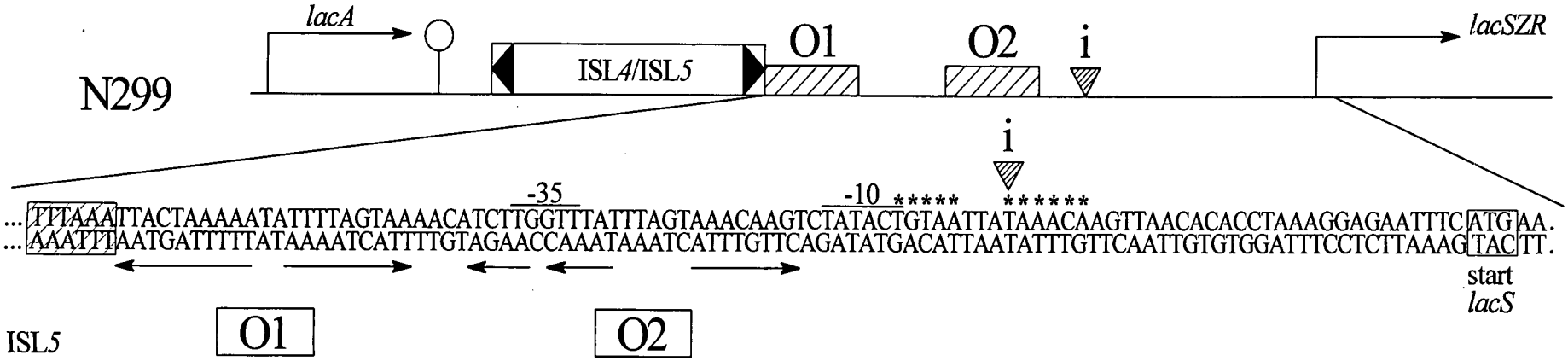

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FIG. 4

```
   1 GAATTTTGTCTGGATGCTCAGGAAGCCCGCCAGCTCAAGCTGGTGATTCAGCCACTTTTT
                stop lacZ                                      RBS
  61 ACTGAATAATGCTACAATTGACTTAACAGCATAAAATTTTAGTAAAAGCGAGTGAAGAAG

 121 ATGGCAACGATCAGAGAAGTGGCCAAGGCAGCCGGCGTGTCGCCAGCGACGGTTTCCCGG
   1 M A T I R E V A K A A G V S P A T V S R
               helix                turn      helix

 181 GTCTTGAACTATGACCAGACCCTGTCGGTCAATGAGGCAACGCGGCAGAAGATATTCAAA
  21 V L N Y D Q T L S V N E A T R Q K I F K

 241 ACTGCTGAAGCCATGCACTACCATAAGAGCCGGAAGACCAGAAAGAGCAAGCAAAAGCGC
  41 T A E A M H Y H K S R K T R K S K Q K R

 301 CTGGCGATCTGCCTGTGGTGTGACCAAGACCAGGAGATCAAGGACCTCTATTACTATTCA
  61 L A I C L W C D Q D Q E I K D L Y Y Y S

 361 ATCAGAACCAGCGCGCAAGCAGAGGCCAAGAAGCAGGGACTTGAAAGCCAGGTCATTTAT
  81 I R T S A Q A E A K K Q G L E S Q V I Y

 421 CCGGCTGATCCTTTGCCCGATCCAGCTGCTTTAAGCGGGATTATCATGATTGGCTACCAG
 101 P A D P L P D P A A L S G I I M I G Y Q

 481 CAGTATTCGCCAGACCGCTTGAATGAAGTCAAAAAGTCTGGCCTGCCCCTGGTCTTTGTC
 121 Q Y S P D R L N E V K K S G L P L V F V

 541 GATACTGACACCTTAAAATTGGGTTACTGCTCAGTTGTGGCTGACTTTGGCCAGGCCATG
 141 D T D T L K L G Y C S V V A D F G Q A M

 601 CAGGAGGCGCTAGAGGTCTTCTGGGGGCAGGGCAGGGAGCGGATCGCCCTTTTGGATGGT
 161 Q E A L E V F W G Q G R E R I A L L D G

 661 GATTTGGACAGTAATTTTGATAAAAACAACTTGGTCGACTTCCGCTTCCGCGATTATAAG
 181 D L D S N F D K N N L V D F R F R D Y K
          ▼
 721 AAGAGCCTCGCGGCCCGCGGCCAGTACGACCCGGACTTAGTCTATGTTGGAAACTTCACT
 201 K S L A A R G Q Y D P D L V Y V G N F T

 781 CCGCAATCTGGCTATGAAGCCATTAAAGAAGCTCTTAAGTCCGGCTCCTTCCCGAAAGCC
 221 P Q S G Y E A I K E A L K S G S F P K A

 841 TTGATTGCGGCTAATGACGCCATGGCTATTGGAGCATTGAAGGCCTTTAAAGAAGCTGGA
 241 L I A A N D A M A I G A L K A F K E A G

 901 ATTAAAGTCCCAGAGGACGTCAGTCTGATTTCTTTTAATGACACAACGGCAGCAGAATTT
 261 I K V P E D V S L I S F N D T T A A E F

 961 GCCAACCCAGCCTTGACTAGCGTACATGTAGAGACCCAGCAGATGGGCCGAGCCAGCGTC
 281 A N P A L T S V H V E T Q Q M G R A S V

1021 AAGGTCATGAAAGACCTGCTGGATGATGATGAAGCCGGCACTTACAAGGTCACTTTCCCA
 301 K V M K D L L D D D E A G T Y K V T F P

1081 ACAAAACTCGTTTACCGGGAATCTTGCCCAAAAGCATAAGGGCATAGAGCATAATAACAG
 321 T K L V Y R E S C P K A *

                                                    ⇒
1141 CAAAGAAATAGCTTGGAGATTGATTTTCTCCAAGCTATTTTTCGTATATAITTAATGGCTGC
                                                    stop asnA

1201 ATTCTGTTGATCATTCTTGGGAATGGGACAGCTTCACGAACGTGGTCCAGCTTGCAGATC
1261 CAGGCAATGACCCGTTCAAAG
```

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FIG. 5

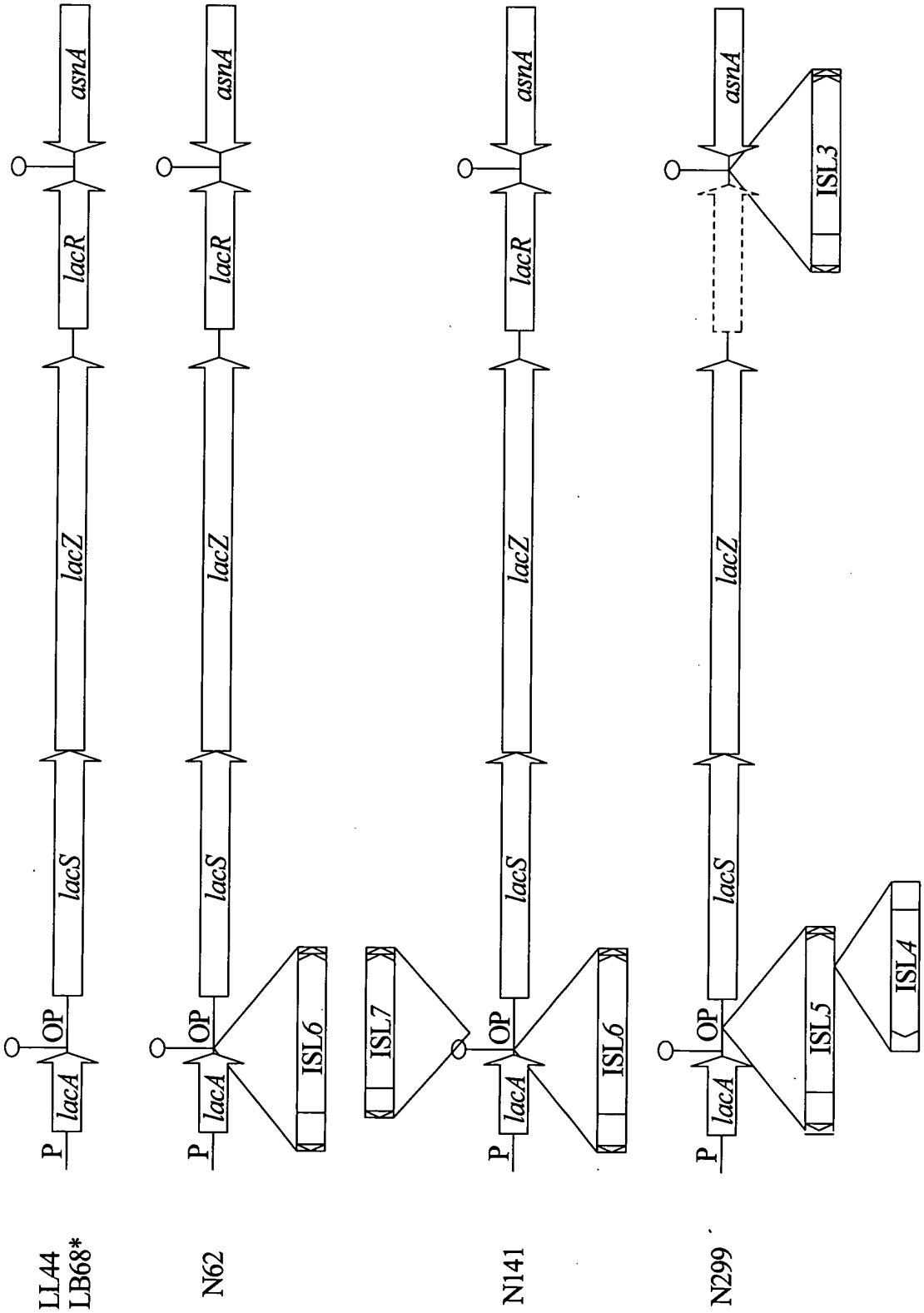

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FIG. 6

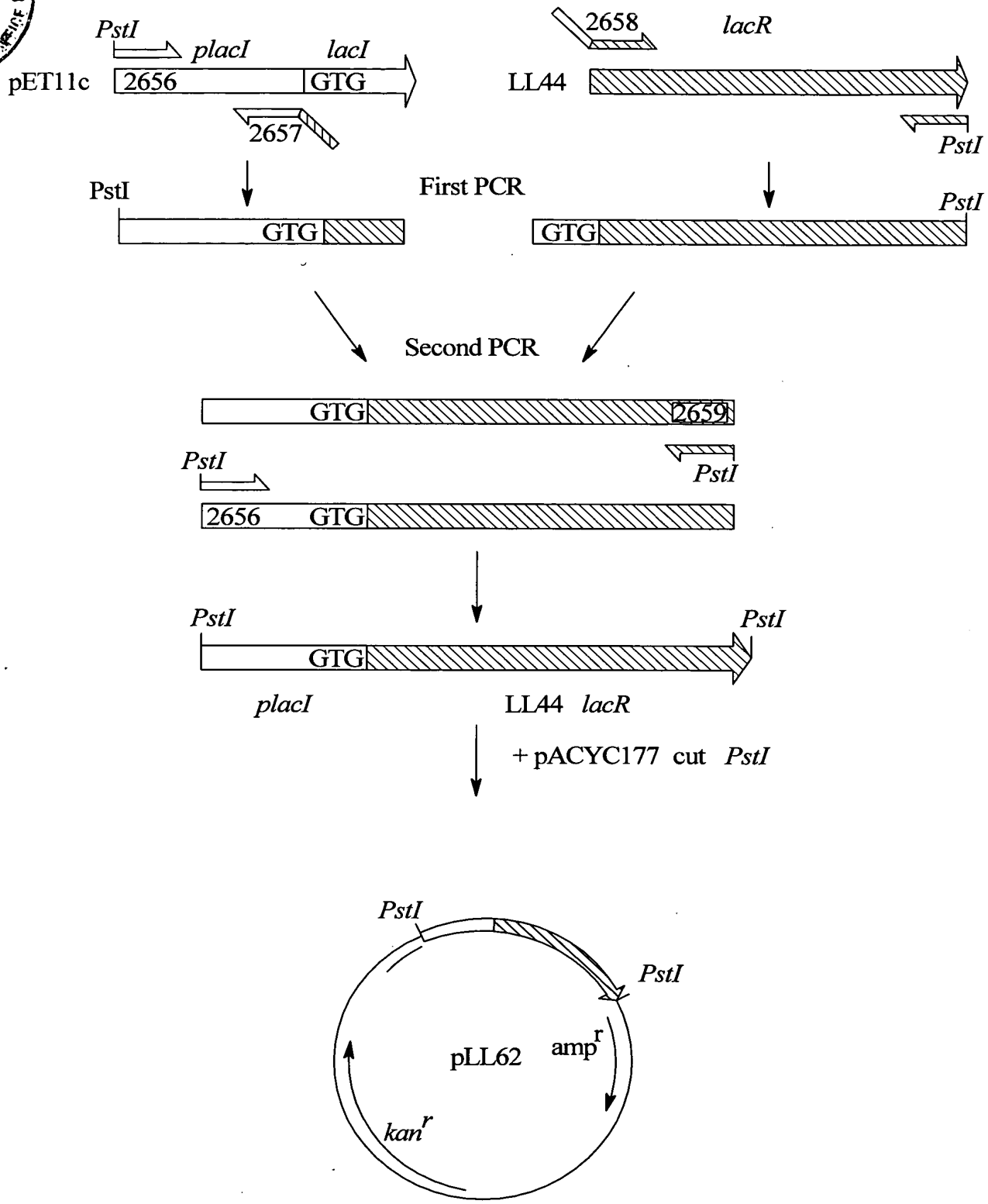

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FIG. 7

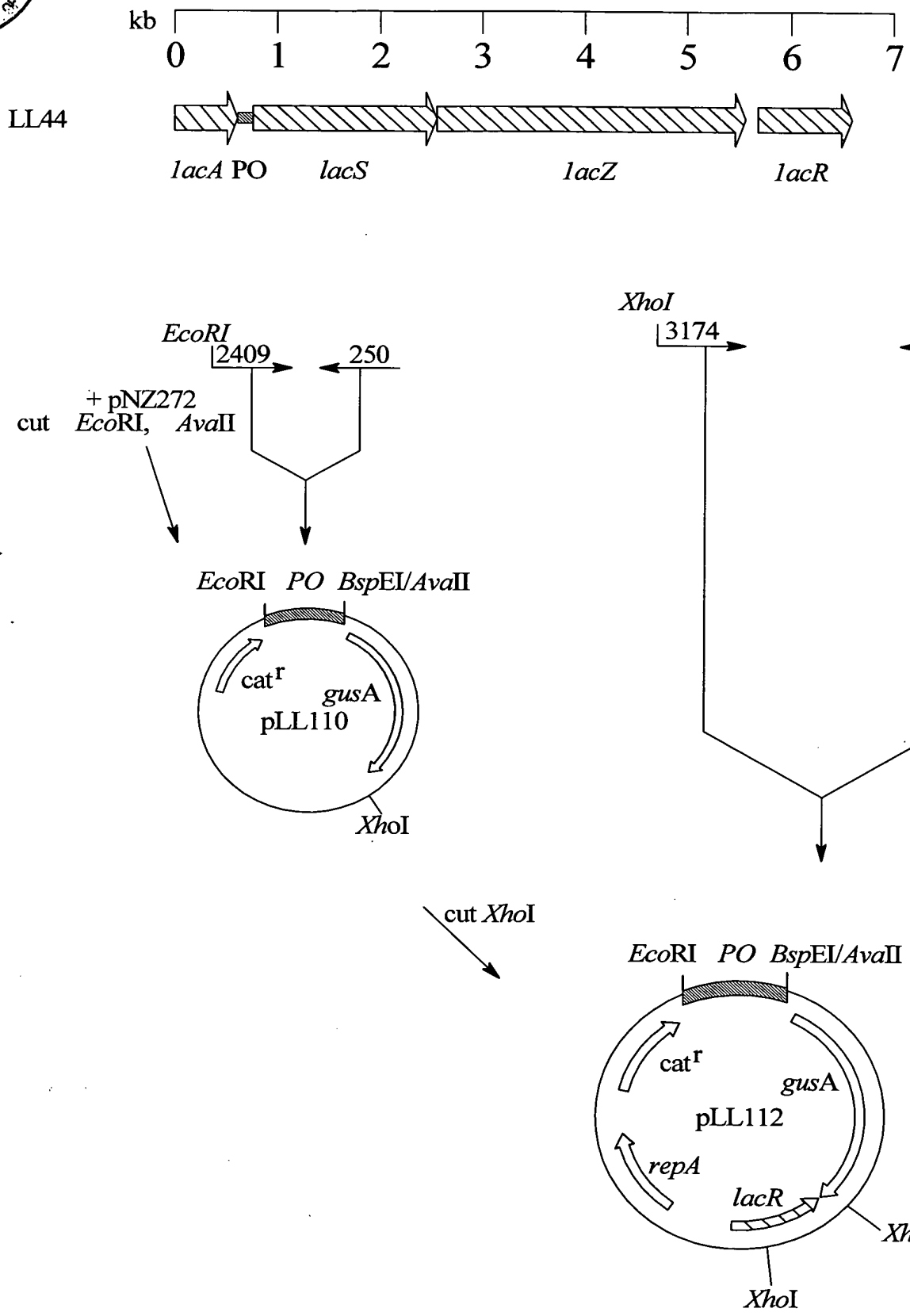

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FIG. 8

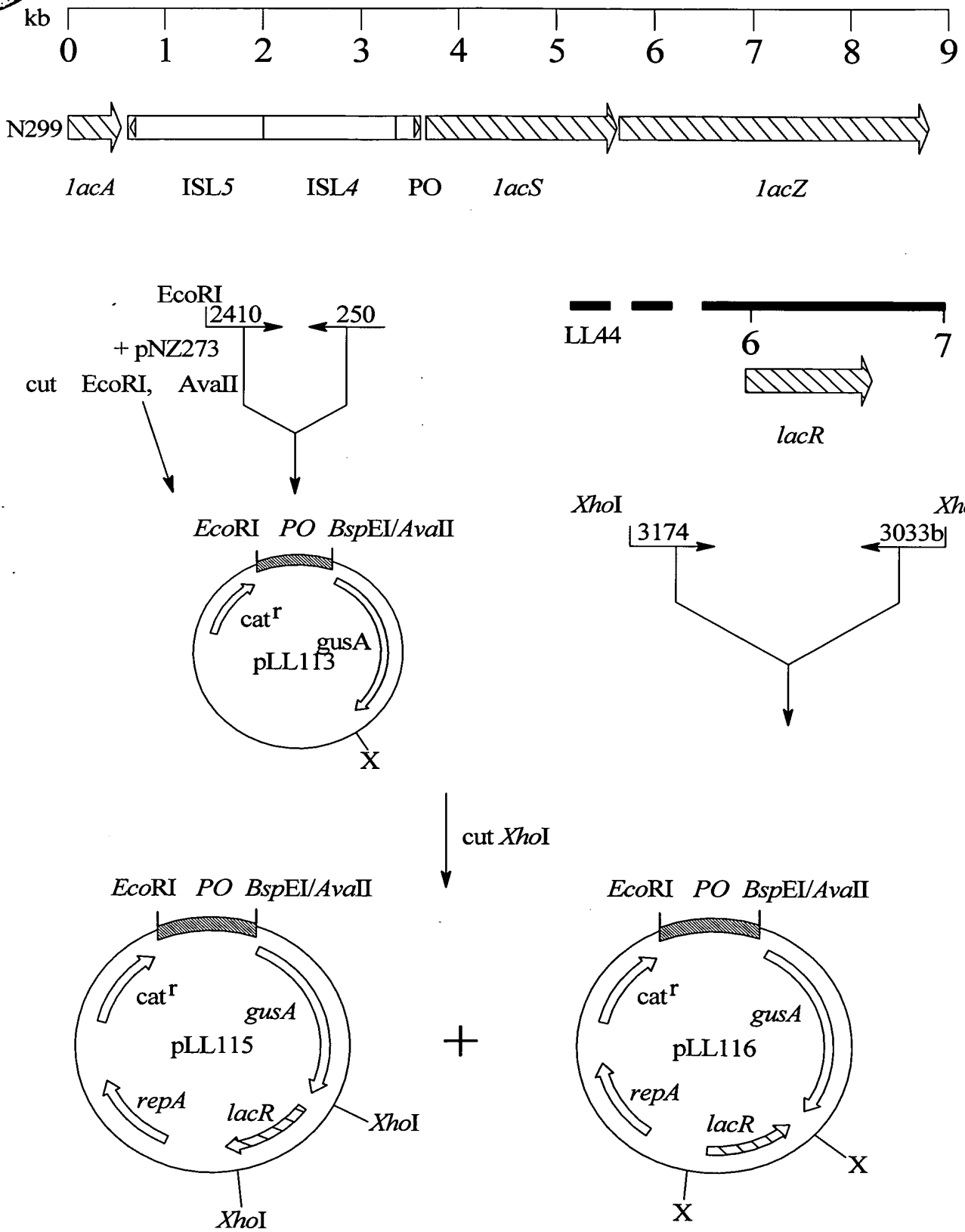

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FIG. 9

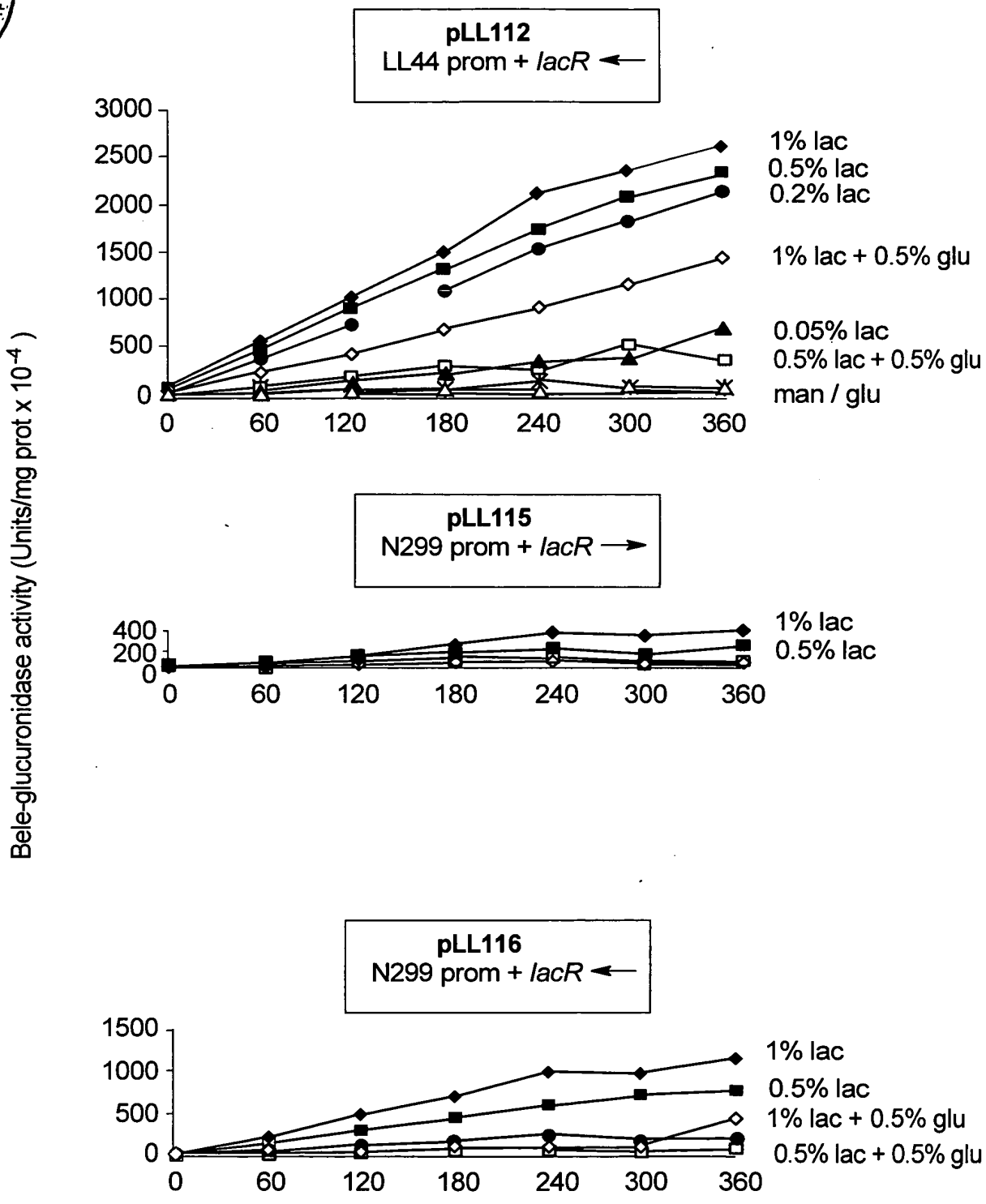

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FIG. 10